

इंटरनेट

मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 7665 (1975): Clamp, Intestine, Crushing, Lever Action, Payr's Pattern [MHD 1: Surgical Instruments]



“ज्ञान से एक नये भारत का निर्माण”

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“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



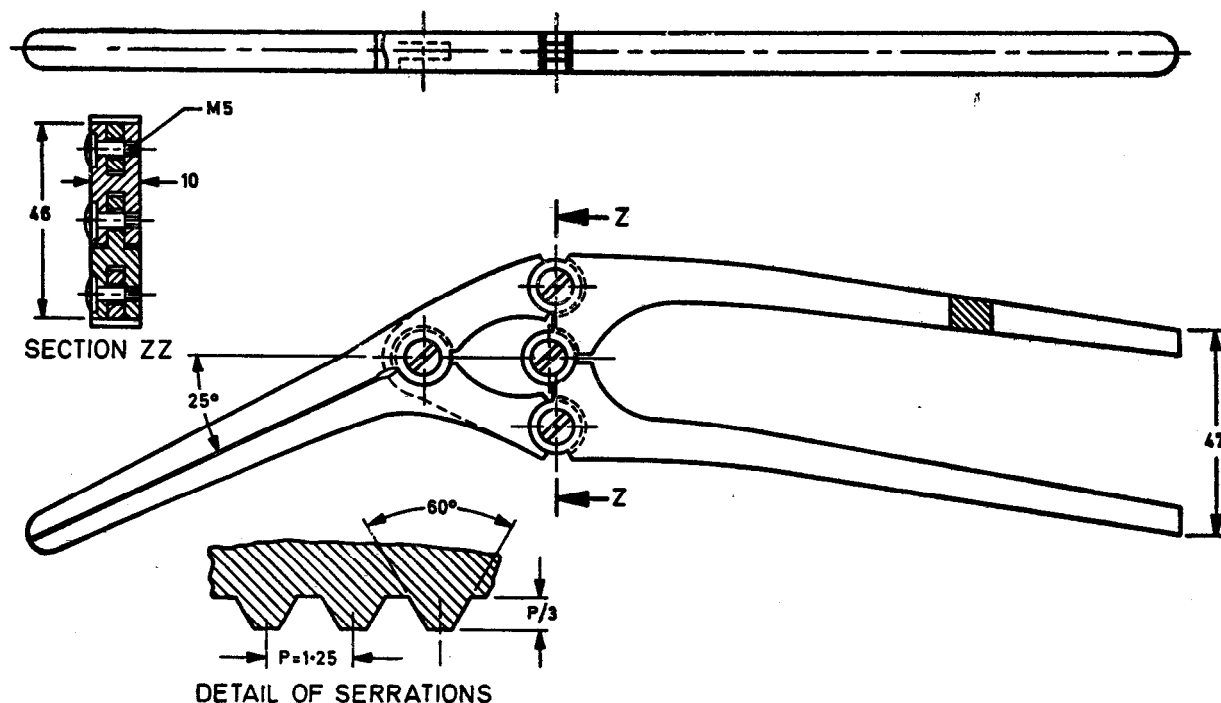
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*Indian Standard*  
**SPECIFICATION FOR  
CLAMP, INTESTINE, CRUSHING, LEVER ACTION,  
PAYR'S PATTERN**

1. **Scope** — Dimensional and other requirements of Payr's pattern intestine crushing lever action clamp.
2. **Shape and Dimensions** — As shown in Fig. 1 and 2.



All dimensions in millimetres.

FIG. 1 CLAMP, INTESTINE, CRUSHING, LEVER ACTION, PAYR'S PATTERN

3. **Materials** — Stainless steel conforming to Designation 30Cr13 of IS : 6603-1972 'Specification for stainless steel bars and flats'.

4. **Workmanship and Finish**

- 4.1 The surfaces of the clamp shall be free from rough edges, pits, burrs, cracks and other surface flaws.
- 4.2 The edges shall be even and uniform.
- 4.3 The components shall move smoothly, fully and freely at the joints. There shall be no undue play at the joints.
- 4.4 On closure of the blades, the serrations shall engage with accuracy and precision and shall not allow any side play of the blades on each other.
- 4.5 The clamp shall be polished bright and passivated.

5. **Heat Treatment** — The clamp shall be hardened and tempered to give a hardness of 370 to 430 HV.

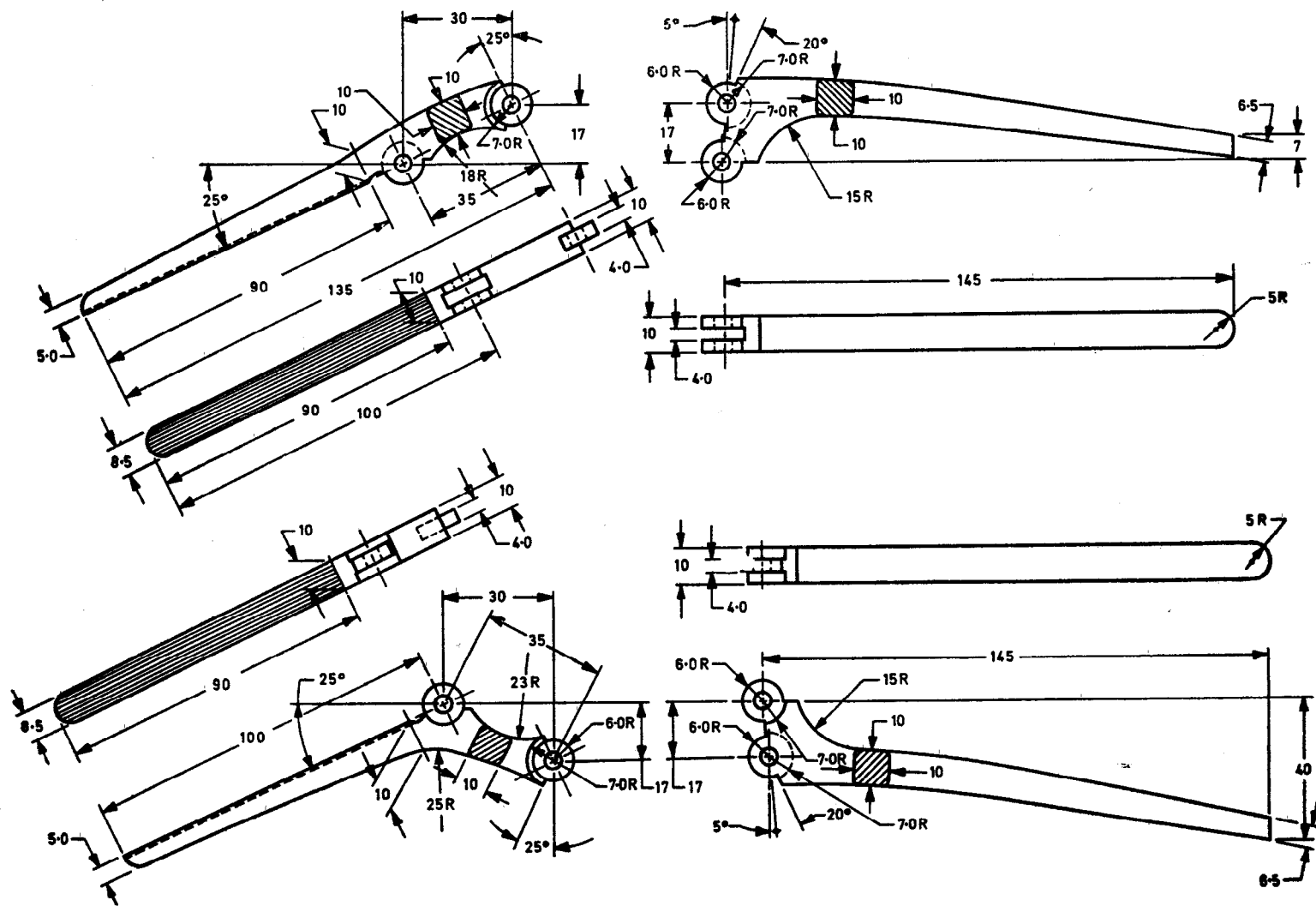
6. **Tests**

6.1 Put a piece of vulcanized rubber sheet 6 mm thick between the blades of the clamp. Apply a compressive force of 1 000 N on both the handles in such a way that the force acts at the centre of each

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Price Rs 6.00



All dimensions in millimetres.

FIG. 2 DETAILS OF CLAMP, INTESTINE, CRUSHING, LEVER ACTION, PAYR'S PATTERN

handle. The maximum force shall be attained gradually and shall act for two minutes. On completion of the test, the clamp shall show no sign of damage or permanent set.

**6.2 Corrosion Resistance Test** — The instrument shall satisfy the boiling and autoclaving test as mentioned in IS : 7531-1975 'Method for boiling and autoclaving test for corrosion resistance of stainless steel surgical instruments'.

**6.2.1** Subject to agreement between the purchaser and the supplier the instrument may be put to the following test:

*Copper Sulphate Test* — Scrub the instrument with soap and warm water, rinse in hot water and then dip in 95 percent ethyl alcohol. Dry the instrument, immerse in copper sulphate solution at room temperature for 6 minutes and wash with fresh water or wet cotton wool.

The composition of the copper sulphate solution shall be as follows:

Copper sulphate ( $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ )	4.0 g
Sulphuric acid ( $\text{H}_2\text{SO}_4$ ) ( sp gr 1.84 )	10.0 g
Distilled water [ see IS : 1070-1960 Specification for water, distilled quality ( revised ) ]	90.0 ml

**6.2.2** There shall be no red stains or spots on the instrument, but dulling of the polished surface may be permitted.

**7. Marking** — Each instrument shall be marked with the following:

- a) Manufacturer's name, initials or recognized trade-mark; and
- b) The words 'Stainless Steel'.

**7.1 ISI Certification Marking** — Details available with the Indian Standards Institution.

**8. Packing** — As agreed to between the purchaser and the supplier ensuring that the serrations are suitably protected.